Randell Manufacturing, Inc.

OWNERS MANUAL

This manual provides information on installation, operating, maintenance, troubleshooting
&
replacement parts

for

JACK IN THE BOX
MODEL 2010FMJB
REACH-IN

NSF

NOTIFY CARRIER OF DAMAGE AT ONCE.

It is the responsibility of the consignee to inspect the container upon receipt of same and to determine the possibility of any damage, including concealed damage. Randell suggests that if you are suspicious of damage to make a notation on the delivery receipt. It will be the responsibility of the consignee to file a claim with the carrier. We recommend that you do so at once.

520 S. Coldwater Road Weidman MI 48893-9683
Phone 1-800-621-8560 Fax 1-800-634-5369
www.randell.com

CREATED MAY 10,2001 PP MNL0024

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Congratulations on your recent purchase of Randell food service equipment, and welcome to the growing family of satisfied Randell customers.

Our reputation for superior products is the result of consistent quality craftsmanship. From the earliest stages of product design, to successive steps in fabrication and assembly, rigid standards of excellence are maintained by our staff of designers, engineers, and skilled employees.

Only the finest heavy-duty materials and parts are used in the production of Randell brand equipment. This means that each unit, given proper maintenance, will provide years of trouble free service to its owner.

In addition, all Randell food service equipment is backed by one of the best warranties in the food service industry and by our professional staff of service technicians.

Retain this manual for future reference.

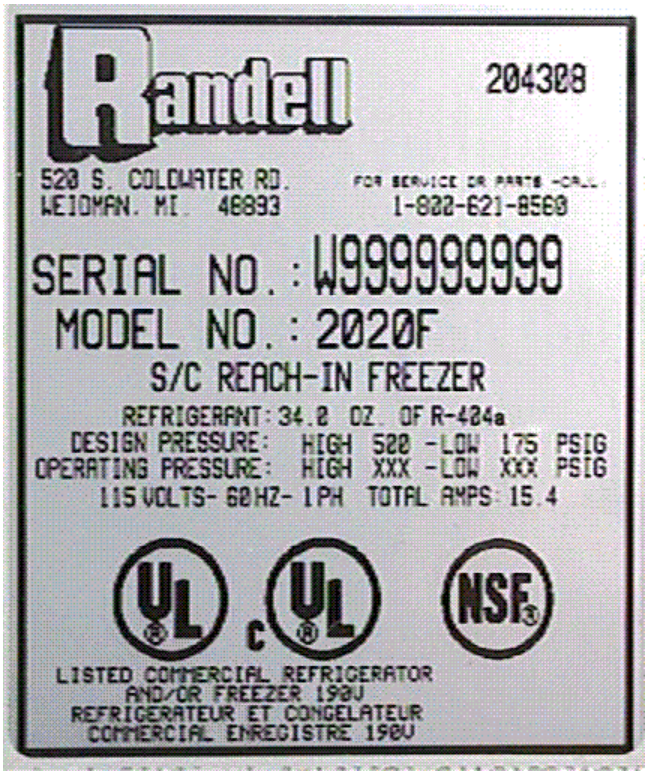
Notice: Due to a continuous program of product improvement, Randell Manufacturing reserves the right to make changes in design and specifications without prior notice.

Notice: Please read the entire manual carefully before installation.
If certain recommended procedures are not followed, warranty claims will be denied.

Model Number _____
Serial Number _____
Installation Date _____

Randell Manufacturing
Service and Parts
Hot Line
1-800-621-8560

RANDELL MANUFACTURING
SERIAL NUMBER LOCATION
FOR THE
2000 SERIES



This is a sample of a serial number tag.

The serial number tag on the 2000 series is located inside the refrigerated base on the far left side of the unit.

Unit Specifications
For The
2000 Series

2010 SERIES

MODEL	L	D	H	DOORS	CUBIC FEET	SHELVES QTY/SQ. FT	HP	BTU/HR	VOLT	AMP	NEMA	SHIP WT
2010FMJB	30"	31"	69"	2	20.6	4/15.25'	½	2180*	115/60/1	9.3	5-15P	375

*Based on 90F ambient evaporator for -10F freezers

Randell Manufacturing, Inc.
Warranty Policies

Parts Warranty

Randell warrants all component parts of manufactured new equipment to be free of defects in material or workmanship, and that the equipment meets or exceeds reasonable industry standards of performance for a period of one year from the date of shipment from any Randell factory, assembly plant or warehouse facility.

Note: Warranties are effective from date of shipment, with a thirty day window to allow for shipment, installation and set up. In the event equipment was shipped to a site other than the final installation site, Randell will warranty for a period of three months following installation, with proof of starting date, up to a maximum of eighteen months from date of purchase.

Component parts warranty does not cover glass breakage or gasket replacement. Randell covers all shipping cost related to component part warranty sent at regular ground rates (UPS, USPS). **Freight or postage incurred for any express or specialty methods of shipping are the responsibility of the customer.**

Labor Coverage

In the unlikely event a Randell manufactured unit fails due to defects in materials or workmanship within the first ninety days, Randell agrees to pay reasonable labor incurred. During the first ninety days work authorizations are not required for in warranty repairs. However, repair times are limited to certain flex rate schedules and hours will be deducted from service invoices if they exceed allowed times without prior approval and a work authorization number. Warranties are effective from date of shipment, with a 30 day window to allow for shipment, installation and setup.
Where equipment is shipped to any site other than final installation Randell will honor the labor warranty for a period of ninety days following installation with proof of starting date, up to a maximum of nine months from date of purchase. Travel time is limited to one hour each direction or two hours per invoice. Any travel time exceeding two hours will be the responsibility of the customer.

Note: Temperature adjustments are not covered under warranty, due to the wide range of ambient conditions.

United States installations only:
Randell will pay for the replacement compressor only. Freight, labor, refrigerant, handling and all other miscellaneous charges are the responsibility of the customer. Randell will fulfill its warranty obligation by using one of the four methods provided below, which will be selected by the Randell in house service technician:

1. Provide reimbursement to servicing customer for the cost of the locally obtained replacement compressor in exchange for the return of the defective compressor returned to Randell freight prepaid. Randell does limit the amount of reimbursement allowed and does require a copy of the local supply house bill for replacement compressor.

Customer should not pay servicing agent up front for compressor.

2. Provide repair at the manufacturing facility by requiring that the defective unit be sent back to Randell freight prepaid. Perform repair at the expense of Randell and ship the item back to job location freight collect.
3. Furnish a replacement compressor freight collect in exchange for the return of the defective compressor sent back freight prepaid.
4. Furnish complete condensing unit or replacement package freight collect in exchange for the return of the defective compressor sent back freight prepaid. (decisions based on whether or not to send complete condensing unit will be made by Randell in-house service technician).

Export Warranty

Our export warranties will cover all non electrical parts for the period of one year from the date of shipment to be free of defects in material or workmanship. Electrical parts are also covered if ordered and operated on 60 Hz. Electrical components, ordered and operated on 50 Hz, are warranted for the first 90 days from shipment only. Service labor is covered for the first 90 days with authorization from factory prior to service. Warranty is automatically initiated 60 days from ship date. Inbound costs on any factory supplied items would be the responsibility of the customer. Adherence to recommended equipment maintenance procedures, according to the owners manual provided with each unit, is required for this warranty to remain in effect, and can have a substantial effect on extending the service life of your equipment. Equipment abuse voids any warranty. Extended warranties are not available for parts, labor or compressors on units shipped outside the United States.

Freight Damage

Any and all freight damage that occurs to a Randell piece of equipment as a result of carrier handling is not considered warranty, and is not covered under warranty guidelines. Any freight damage incurred during shipping needs to have a freight claim filed by the receiver with the shipping carrier (note all damages on freight bill at time of delivery). Internal or concealed damage may fall under Randell’s responsibility dependent upon the circumstances surrounding each specific incident and are at the discretion of the Randell in-house service technician.

Randell does not cover gaskets under warranty. Gaskets are a maintenance type component that are subject to daily wear and tear and are the responsibility of the owner of the equipment. Because of the unlimited number of customer related circumstances that can cause gasket failure all gasket replacement issues are considered non-warranty. Randell recommends thorough cleaning of gaskets on a weekly basis with a mild dish soap and warm water. With proper care Randell gaskets can last up to two years, at which time we recommend replacement of all gaskets on the equipment for the best possible performance.

NOTICE: FOOD LOSS IS NOT COVERED UNDER WARRANTY

Unit Installation

A. Receiving Shipment

Upon arrival, examine the exterior of the shipping crate for signs of abuse. It is advisable that the shipping crate be partially removed, in order to examine the cabinet for any possible concealed damages which might have occurred during shipment. If no damages are evident, replace the crate in order to protect the unit during storage and local delivery. If the unit is damaged, it should be noted on the delivery slip or bill of lading and signed to that effect. A claim must be filed immediately against the carrier indicating the extent and estimated cost of damage occurred.

B. Electrical Supply

The wiring should be done by a qualified electrician in accordance with local electrical codes. A properly wired, and grounded outlet will assure proper operation. Please consult the data plate attached to the compressor to ascertain the correct electrical requirements. Supply voltage and amperage requirements are located on the serial number tag located inside the far left door.

Note: It is important that a voltage reading be made at the compressor motor electrical connections, while the unit is in operation, to verify that the correct voltage required by the compressor is being supplied. Low or high voltage can detrimentally affect operation and thereby void its warranty.

Note: It is important that your unit has its own dedicated line. Condensing units are designed to operate with a voltage fluctuation of plus or minus 10% of the voltage indicated on the unit data plate. Burn out of a condensing unit due to exceeding voltage limits will void the warranty.

C. Door Inspection

1. Check doors/drawers to ensure that they are sealing properly.
2. Check doors for proper alignment (see figure D. page 14).
3. Check doors to ensure that they open and shut freely.

D. Locating Your New Unit

The following conditions should be considered when selecting a location for your unit:

1. Floor load - The area on which the unit will rest must be free of vibration and suitably strong enough to support the combined weights of the unit plus the maximum product load weight, which are provided in the table belolow:

MODEL	CUBIC FT	FACTOR	WEIGHT POUNDS	TOTAL CAPACITY
2010FMJB	20.6	35	375	11500

2. Clearance - There must be a combined total of at least 3" clearance on all sides of the unit.
3. Ventilation - The air cooled self contained unit requires a sufficient amount of cool clean air. Avoid placing the unit near heat generating equipment such as ovens, ranges, heaters, fryers, steam kettles, etc. and out of direct sunlight. Avoid locating the unit in an unheated room or where the room temperature may drop below 55° F or above 90° F.

E. Installation Checklist

After the final location of the unit has been determined refer to the following checklist prior to start up:

1. Check all exposed refrigeration lines to ensure that they are not kinked, dented or rub-bing together.
2. Check that condenser and evaporator fans rotate freely without striking any stationary members.
3. Unit must be properly leveled.
4. Plug in unit and turn on main on/off switch.
5. Turn on cold control located inside the base.
6. Refer to the front of this manual for serial number location. Please record this information in your manual on page 3 now. It will be necessary when ordering replacement parts or requesting warranty service.
7. Confirm that unit is holding temperature. Set controls to desired temperature for your particular ambient and altitude (See figure A.).
8. Allow your unit to operate for approximately 2 hours before putting in food this allows interior to cool down to storage temperature.

Note: All motors are oiled and sealed.
Note: All self-contained models are shipped from the factory with the service valves open ready for operation.

Figure B - Temperature control adjustments

The control knob allows for temperature adjustments,with in the cabinet only. Turning the knob clockwise will result in increased cooling. Keep the arrow on the knob pointed within the green arc. Turning it clockwise beyond the green can result in freeze-up, while turning it counterclockwise beyond the green will shut the compressor off. If your cabinet temperature remains to warm and your temperature control is at the maximum setting you may need to adjust the pressure control. Your units pressure control should be set at the time of installation by a qualified installation contractor. If minor adjustments are needed at a later date, adjust control by turning the right adjusting screw clockwise (1/4 turn at a time) to a lower number for colder temperature and counterclockwise to a higher number for warmer temperature.

Note: Numbers are pounds of pressure not degrees F.

Note: Do not adjust the differential screw.

Note: Temperature Controls located behind louver on top of unit.

Unit Operation

Randell has attempted to preset the cold control for an average interior temperature of 38°F at the factory but due to varying ambient conditions, including elevation, food product as well as type of operation you may need to alter this temperature. Additional adjustments can be made (within limits) by turning the control dial up or down until the desired temperature is reached. The control dial is located on the evaporator housing inside the base.

Your reach-in will maintain proper temperatures when utilized properly. It is strongly recommended that the doors be kept closed as much as possible. This is especially important in the summer and in kitchens exceeding 80° F.. Do not leave the covers open for prolonged periods of time. Make sure doors close properly after each use.

Note: Even though your reach-in was designed for heavy use, excessive door openings should be avoided, in order to maintain proper box temperature and eliminate the possibility of coil freeze up.

Preventive Maintenance

Randell strongly suggests a preventive maintenance program which would include the following **Monthly** procedures:

1. Cleaning of all condenser coils. Condenser coils are a critical component in the life of the compressor and must remain clean to assure proper air flow and heat transfer. Failure to maintain this heat transfer will affect unit performance and eventually destroy the compressor. Clean the condenser coils with coil cleaner and/or a vacuum cleaner and brush.

Note: Brush coil in direction of fins, normally vertically as to not damage or restrict air flow from passing through condenser.

2. Clean all fan blades, both on the condensing unit and the evaporator assembly.
3. Lubricate door hinges with lithium grease.
4. Clean and disinfect drain lines and evaporator pan with a solution of warm water and bleach.
5. Clean all gaskets on a weekly if not daily basis with a solution of warm water and a mild detergent to extend gasket life.

NOTE: DO NOT USE SHARP UTENSILS

Recommended cleaners for your stainless steel include the following:

JOB	CLEANING AGENT	COMMENTS
Routine cleaning	Soap, ammonia, detergent Medallion	Apply with a sponge or cloth
Fingerprints and smears	Arcal 20,Lac-O-Nu,Ecoshine	Provides a barrier film
Stubborn stains and discoloration	Cameo, Talc, Zud, First impression	Rub in the direction of the polish lines
Greasy and fatty acids, blood, burnt-on foods	Easy-Off, De-grease It, Oven aid	Excellent removal on all finishes
Grease and oil	Any good commercial detergent	Apply with a sponge or cloth
Restoration/Passivation	Benefit, Super Sheen	Good idea monthly

Reference: Nickel Development Institute, DiverseyLever, Savin, Ecolab, NAFEM

Do not use steel pads, wire brushes, scrapers or chloride cleaners to clean your stainless steel.

CAUTION: DO NOT USE ABRASIVE CLEANING SOLVENTS, NEVER USE HYDROCHLORIC ACID (MURIATIC ACID) ON STAINLESS STEEL.

Proper maintenance of equipment is the ultimate necessity in preventing costly repairs. By evaluating each unit on a regular schedule you can often catch and repair minor problems before they completely disable the unit and become burdensome on your entire operation.

For more information on preventive maintenance consult your local service company or CEFSA member. Most repair companies offer this service at very reasonable rates to allow you the time you need to run your business along with the peace of mind that all your equipment will last throughout its expected life. These services often offer guarantees as well as the flexibility in scheduling of maintenance for your convenience. Randell believes strongly in the products it manufacturers and backs those products with one of the best warranties in the industry. We believe with the proper maintenance and use you will realize a profitable return on your investment and years of satisfied service.

1. Cleaning condenser coil.
An accumulation of dirt and dust prevents the condenser coil from removing, making your unit cool poorly, run constantly, or even stop completely if the compressor overheats. Clean coil using a vacuum cleaner with a wand attachment. If the coil is greasy, wash it with warm soapy water and a bristle brush, taking care not to drip water on other parts of your unit.

2.Cleaning drain and drain pan.

Clean the drain using an oven baster to force a solution of hot water and baking soda or bleach into the opening. To clear a stubborn clog, insert a length of ¼" round plastic tubing into the drain and push it through to the drain pan, then pull it out. Wash the pan regularly with a solution of warm baking soda and water.

3. Checking the door seal.

Open the door and examine all four sides of the door gasket for tears. Feel the gasket for brittleness or cracks. If the gasket shows damage replace it. If not, close the door and check the seal between gasket and cabinet for obvious gaps. Next open the door and shut it on a dollar bill slowly pull it out of the door. If the gasket seals properly, you will feel tension as it grips the bill. Repeat this test all around the door. If the gasket doesn’t seal tightly, replace gasket after first checking the door for sagging, warping.

EASY TO FOLLOW

TROUBLE SHOOTING CHART

SYMPTOM	POSSIBLE CAUSE	PROCEDURE
UNIT DOESN'T RUN	1. NO POWER TO UNIT.	1. PLUG IN UNIT.
	2. TEMPERATURE CONTROL TURNED OFF.	2. CHECK TEMPERATURE CONTROL.
	3. TEMPERATURE CONTROL FAULTY.	3. TEST TEMPERATURE CONTROL.
	4. COMPRESSOR OVERHEATED.	4. CLEAN CONDENSER COIL.
	5. CONDENSER FAN FAULTY.	5. SERVICE CONDENSER FAN MOTOR.
	6. OVERLOAD PROTECTOR FAULTY.	6. TEST OVERLOAD.
	7. COMPRESSOR RELAY FAULTY.	7. TEST RELAY.
	8. COMPRESSOR FAULTY.	8. CALL FOR SERVICE AT 1-800-621-8560.
UNIT SHORT CYCLES	1. CONDENSER COIL DIRTY.	1. CLEAN COIL.
	2. CONDENSER FAN FAULTY.	2. SERVICE FAN AND MOTOR.
	3. COMPRESSOR FAULTY.	3. CALL FOR SERVICE AT 1-800-621-8560.
	4. OVERLOAD REPEATEDLY TRIPPING.	4. CHECK OUTLET VOLTAGE.
UNIT RUNS CONSTANTLY	1. FROST BUILD UP.	1. DEFROST EVAPORATOR.
	2. DOOR NOT SEALING PROPERLY.	2. CHECK DOOR.
	3. DOOR GASKET DAMAGED.	3. REPLACE GASKET.
	4. CONDENSER COIL DIRTY.	4. CLEAN COIL.
	5. CONDENSER FAN FAULTY.	5. SERVICE CONDENSER MOTOR.

SYMPTOM	POSSIBLE CAUSE	PROCEDURE
UNIT NOT COLD ENOUGH	1. TEMPERATURE CONTROL SET TOO HIGH.	1. LOWER SETTING.
	2. TEMPERATURE CONTROL FAULTY.	2. TEST CONTROL.
	3. CONDENSER COIL DIRTY.	3. CLEAN COIL.
	4. DOOR NOT SEALING PROPERLY.	4. CHECK DOOR.
	5. DOOR GASKET DAMAGED.	5. REPLACE DOOR GASKET.
	6. EVAPORATOR FAN FAULTY.	6. SERVICE EVAPORATOR FAN.
	7. EVAPORATOR ICED UP.	7. CHECK DOOR.
	8. REFRIGERANT LEAKING OR CONTAMINATED.	8. CALL FOR SERVICE AT 1-800-621-8560.
UNIT TOO COLD	1. TEMPERATURE CONTROL SET TOO LOW.	1. ADJUST CONTROL.
	2. TEMPERATURE CONTROL FAULTY.	2. TEST CONTROL.
MOISTURE AROUND DOOR OR FRAME.	1. BREAKER STRIPS FAULTY.	1. INSPECT STRIPS.
	2. TEMPERATURE SET TOO LOW	2. RAISE SETTING.
ICE IN DRAIN PAN OR WATER IN BOTTOM OF UNIT OR FLOOR	1. DRAIN TUBE CLOGGED.	1. CLEAN DRAIN.
	2. UNIT NOT LEVEL	2. ADJUST LEVELING FEET
UNIT NOISY	1. UNIT NOT LEVEL	1. ADJUST LEVELING FEET.
	2. COMPRESSOR MOUNTINGS LOOSE OR HARDENED.	2. TIGHTEN OR REPLACE COMPRESSOR MOUNTINGS.
	3. CONDENSER FAN DAMAGED OR FITTING FAN SHROUD.	3. INSPECT CONDENSER FAN.
	4. EVAPORATOR FAN DAMAGED OR HITTING FAN SHROUD.	4. INSPECT EVAPORATOR FAN.
	5. MECHANICAL COMPARTMENT LOUVER RATTLING.	5. BEND OR ALIGN TABS TO REDUCE NOISE. REPLACE IF NECESSARY.

PARTS LIST

FOR

2010FMJB

JACK IN THE BOX

ITEM	DESCRIPTION	PART NUMBER	ITEM	DESCRIPTION	PART NUMBER
1	PILASTER	RP PIL0104	20	COIL, EVAP	RF COI120B
2	HINGE, DOOR	HD HIN001	21	KNOB, TEMP CNT	HD CNT9901
3	BREAKER, STRIP	PL STR200	22	CONTROL,TEMP	HD CNT100
4	DOOR, ASSY	RP DOR0103	23	THERMODISC, 3WIRE	RF TRM002
5	SHELF	HD SHL105	24	VALVE,EVAP EXPAN	RF VLV404
6	CLIP, SHELF	HD CLP100	25	ELEMENT,EVAP HTG	EL WIR270
7	HANDLE, DOOR	HD HDL125	26	BRACKET, FAN	RP-BKR1050
8	GASKET, DOOR	IN GSK0115	27	FAN BLADES ø5.562	RF FAN005
9	LOUVER, FRONT	RP LVR0111	28	MOTOR, FAN	EL MTR057
10	BOX, JUNCTION	EL BOX020	29	SHROUD, EVAP FAN	RP SHD0102
11	CVR, JUNCTION BOX	EL CVR022	30	GUARD, FAN ø6.75"	RF FAN010
12	ELEMENT,HTG COND PAN	EL WIR274	31	PAN,COIL DRAIN	RP DRP0101
13	PAN,COND HTG ELEMENT	RP CPN0101	32	COVER, DRAIN	RP CVR0140
14	PAN, CONDENSER	RP CPN0102	33	SWITCH, ON/OFF	EL SWT140
15A	CONDENSER UNIT (COMPLETE ASSEMBLY) TECUMSEH, 1/2 HP	RF CON550-404S	34	HEATER, DRAIN	EL WIR011
			35	DRIER, FILTER	RF FLT251
15B	CONDENSER, UNIT (COMPLETE ASSEMBLY) COPELAND	RF-CON0102	36	CORD, PWR 12"	EL WIR469
			37	CORD, PWR 9'	EL WIR800
16A	COMPRESSOR,TECUMSEH	AJA2419ZXA	38	CASTER,W/BRAKE(FRONT)	HD CST022
16B	COMPRESSOR,COPELAND	AFE13C3E-IAA-XXXX	39	CASTER, SWIVEL(BACK)	HD CST023
17	PIGTAIL,2 WIRE, FEMALE	EL WIR466F			
18	PIGTAIL,2WIRE,MALE	EL WIR466M			
19	TIMER, DEFROST	RF TMR120			

Associated Files:

T35-2600A T35-2600C T35-2600D T35-2600E

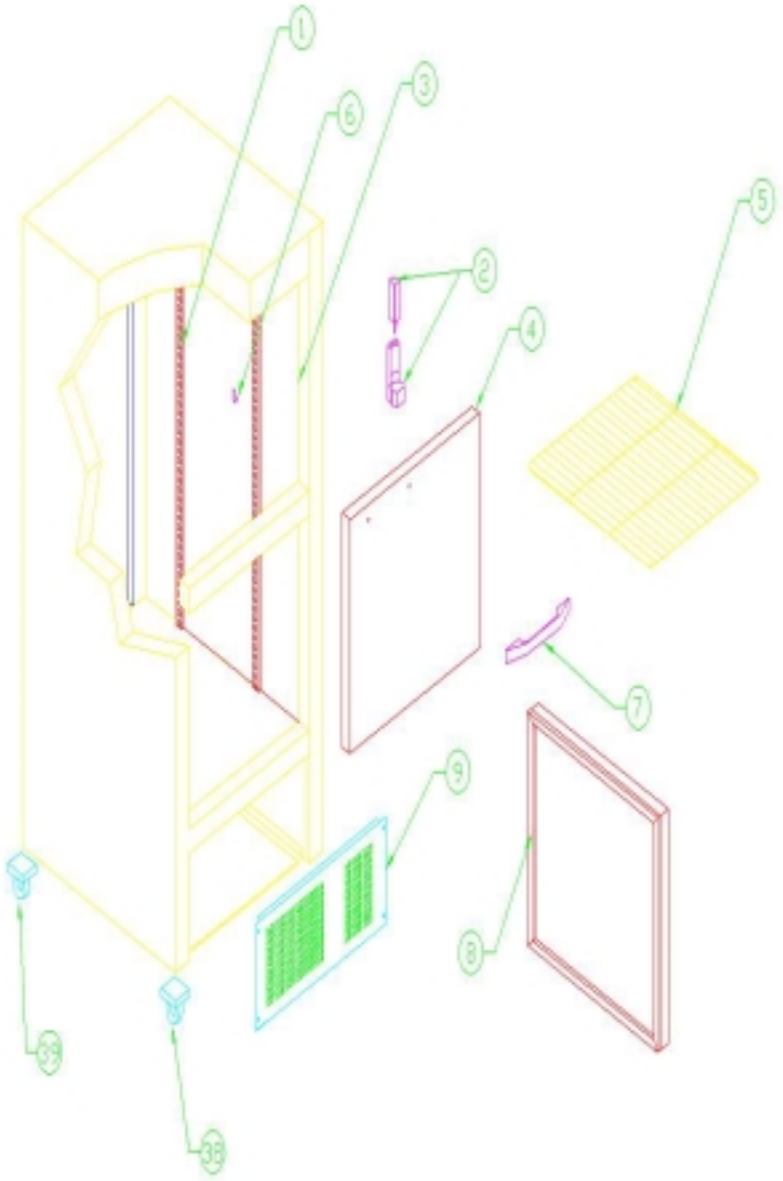
2010FMJB

Bandell

Date:	Revision	Date - XX:
05/03/01	A	03-14-01 - CC

T35-2600B

JACK IN THE BOX



Associated Files:

T35-2600A T35-2600D
T35-2600B T35-2600E

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T35-2600C

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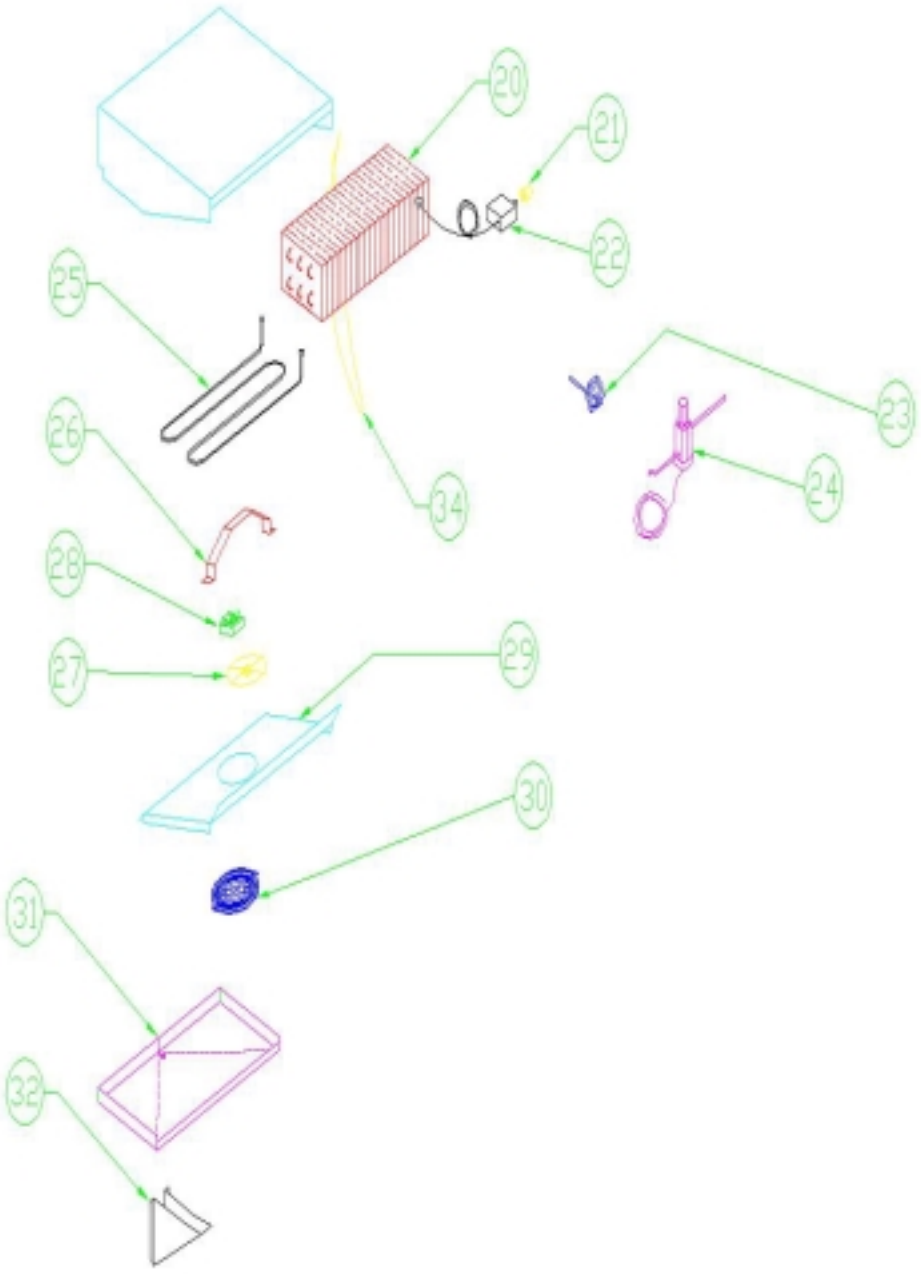

Associated Files:

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T35-2600B T35-2600E

2010FMJB

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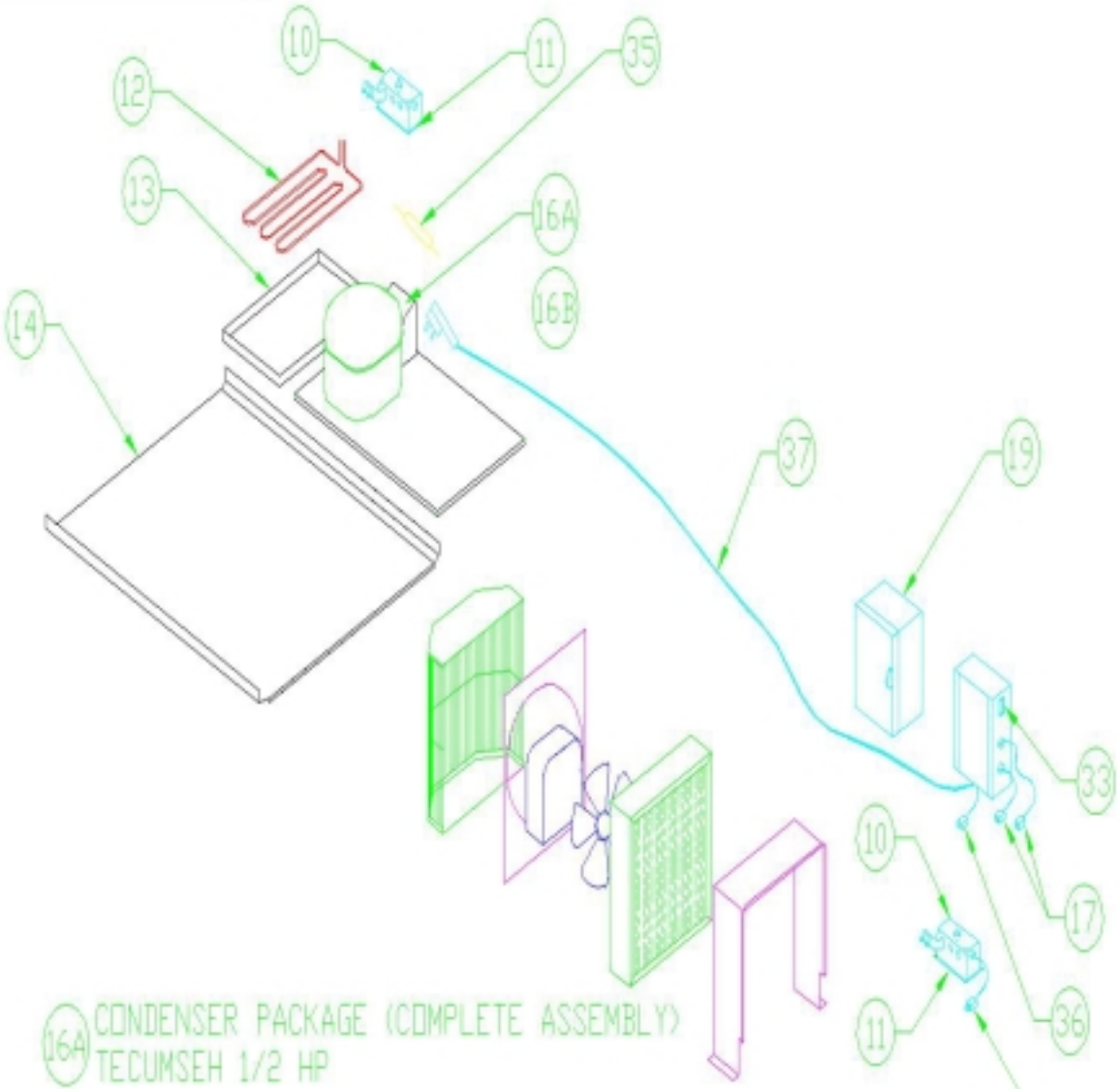
T35-2600D

JACK IN THE BOX



16A CONDENSER PACKAGE (COMPLETE ASSEMBLY)
TECUMSEH 1/2 HP

16B CONDENSER PACKAGE (COMPLETE ASSEMBLY)
COPELAND 1/2 HP

Associated Files:

T35-2600A T35-2600C
T35-2600B T35-2600D

2010FMJB

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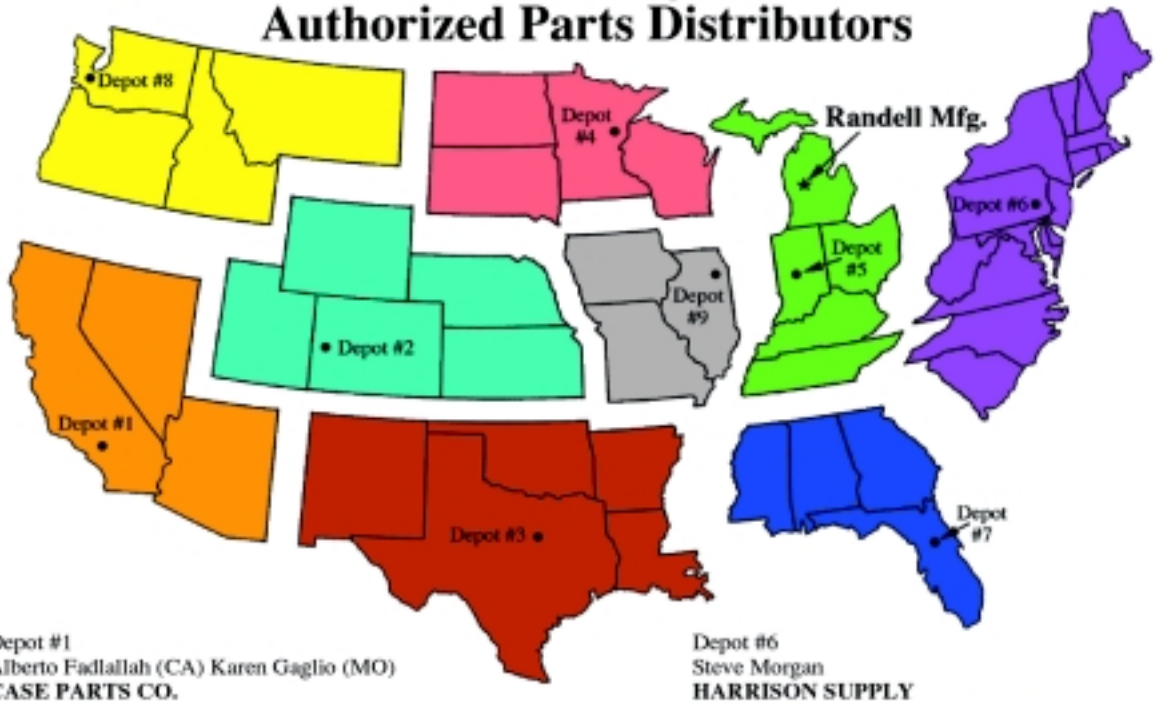
T35-2600E

Randell Manufacturing, Inc.

Authorized Parts Distributors



Depot #1
Alberto Fadlallah (CA) Karen Gaglio (MO)
CASE PARTS CO.
877 Monterey Pass Road
Monterey Park, CA 91754
1-800-621-7884
1-800-421-0271 (CA only)

Depot #2
Craig Brusegaurd
REFRIGERATION HARDWARE SUPPLY
632 Foresight Circle
Grand Junction, CO 81505
1-800-716-7788
1-800-537-8300 (Pac. Coast)

Depot #3
Eddie Kulas
STOVE PARTS SUPPLY
2120 Solona St.
Ft. Worth, TX 76117-0009
1-800-433-1804

Depot #4
Dick Ades
GENERAL PARTS
11311 Hampshire Ave. S.
South Bloomington, MN 55438
1-800-279-9980

Depot #5
Brian Cunningham
COMMERCIAL PARTS
5310 E. 25th St. P.O. Box 18688
Indianapolis, IN 46218-0688
1-800-727-8710

Depot #6
Steve Morgan
HARRISON SUPPLY
Ridley Creek Plaza - 5155 West Chester Pike
P.O. Box 596
Edgemont, PA 19028
1-800-521-8444

Depot #7
Keisha Lowe
WHITESIDE PARTS
722 Broohaven
Orlando, FL 32803
1-800-322-2678

Depot #8
George Trainor
CASE PARTS CO. - NW
907 Thomas Ave. SW Suite B
Renton, WA 98055
1-800-715-3416

Depot #9
Kenny Hernandez
PARTS TOWN
1808 Beach Ave.
Broadview, IL 60153
1-800-438-8898

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